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NOTICE OF ALLOWANCE AND FEE(S) DUE

34137

7590

07/25/2008

EXAMINER
KINSEY WHITE, NICOLE ERIN

PAPER NUMBER

Pepper Hamilton LLP 400 Berwyn Park 899 Cassatt Road Berwyn, PA 19312-1183

ART UNIT

1648 DATE MAILED: 07/25/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/535,326	02/02/2006	David B Weiner	130694.05901	5726

TITLE OF INVENTION: GENETIC CONSTRUCTS AND COMPOSITIONS COMPRISING RRE AND CTE AND USES THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	10/27/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ГOR		ATTO	RNEY DOCKET NO.	CON	FIRMATION NO.
10/535,326 TITLE OF INVENTION	02/02/2006 N: GENETIC CONSTRU	CTS AND COMPOSITIO	David B Weiner ONS COMPRISING R	RE A	AND CTE AND U		130694.05901 HEREOF		5726
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	Т	DATE DUE
nonprovisional	NO	\$1440	\$300		\$0		\$1740		10/27/2008
EXAMINER ART UNIT			CLASS-SUBCLASS	S					
KINSEY WHITE	E, NICOLE ERIN	1648	424-184100	_					
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.	oondence address (or Cha B/122) attached. lication (or "Fee Address 02 or more recent) attach ND RESIDENCE DATA	or agents OR, alteri (2) the name of a s. registered attorney 2 registered patent listed, no name will	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
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5. Change in Entity Sta	itus (from status indicated ns SMALL ENTITY statu		☐ b. Applicant is no	long	er claiming SMAI	LEN	FITV status See 37 C	ED 1.21	7(a)(2)
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400 Berwyn Park				ART UNIT PAPER NUMBER		
899 Cassatt Road Berwyn, PA 19312-1183				1648 DATE MAILED: 07/25/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 357 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 357 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No.	Applicant(s)						
10/535 326	WEINER ET AL.						
Examiner	Art Unit						
NICOLE KINSEY WHITE	1648						
ars on the cover sheet with the coordinate (OR REMAINS) CLOSED in this appropriate communication	correspondence address						
of this communication to file a reply ENT of this application. tted. Note the attached EXAMINER as reason(s) why the oath or declar	r national stage application from the complying with the requirements						
5. X CORRECTED DRAWINGS (as "replacement sheets") must be submitted.							
• ,	9-948) attached						
 hereto or 2) ☐ to Paper No./Mail Date including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 							
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
5. ☐ Notice of Informal I 6. ☐ Interview Summary Paper No./Mail Da 7. ☑ Examiner's Amend 8. ☑ Examiner's Statem 9. ☐ Other	y (PTO-413), ate						
	Examiner NICOLE KINSEY WHITE ars on the cover sheet with the county of the appropriate communication of the process of the subject and MPEP 1308. der 35 U.S.C. § 119(a)-(d) or (f). been received. been received in Application Nocuments have been received in this post this communication to file a reply ENT of this application. tted. Note the attached EXAMINER is reason(s) why the oath or declar to be submitted. on's Patent Drawing Review (PTC) is Amendment / Comment or in the submitted are header according to 37 CFR 1.121 sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGICAL MATERIAL FOR THE PATERIAL FOR THE PATERIAL FOR THE PATERIAL FOR THE PATERIAL FOR THE PAT						

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mark DeLuca on July 21, 2008.

The application has been amended as follows:

In the claims:

1-14. (canceled)

- 15. A method of inducing an immune response against an immunogen in an individual comprising the step of administering to said individual either:
 - a) a composition comprising a genetic construct that comprises
 - i) coding sequence for HIV-1 Rev, and
 - ii) coding sequence for said immunogen, wherein coding sequence for said immunogen comprises
 - 1) at least a portion of coding sequence for an HIV structural protein that includes an RRE and
 - 2) at least one CTE; or
 - b) a composition comprising at least two nucleic acid molecules:

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i) at least one nucleic acid molecule comprises a coding sequence for HIV-1 Rev, and

- ii) at least one nucleic acid molecule comprises a coding sequence for an immunogen, wherein coding sequence for said immunogen comprises
 - 1) at least a portion of coding sequence for an HIV structural protein that includes an RRE and
 - 2) at least one CTE.
- 16. The method of claim 15 comprising the step of administering to said individual a composition comprising a genetic construct that comprises
 - i) coding sequence for HIV-1 Rev, and
 - ii) coding sequence for said immunogen, wherein coding sequence for said immunogen comprises
 - 1) at least a portion of coding sequence for an HIV structural protein that includes an RRE and
 - 2) at least one CTE.
- 17. The method of claim 15 comprising the step of administering to said individual a composition comprising at least two nucleic acid molecules:
- i) at least one nucleic acid molecule comprises a coding sequence for HIV-1 Rev, and
- ii) at least one nucleic acid molecule comprises a coding sequence for an immunogen, wherein coding sequence for said immunogen comprises

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1) at least a portion of coding sequence for an HIV structural protein that includes an RRE and

- 2) at least one CTE.
- 18. A method of delivering a protein to an individual comprising the step of administering to said individual either:
 - a) a composition comprising a genetic construct that comprises
 - i) coding sequence for HIV-1 Rev, and
 - ii) coding sequence for said protein, wherein coding sequence for said protein comprises
 - 1) at least a portion of coding sequence for an HIV structural protein that includes an RRE and
 - 2) at least one CTE; or
 - b) a composition comprising at least two nucleic acid molecules:
 - i) at least one nucleic acid molecule comprises a coding sequence for HIV-1 Rev, and
 - ii) at least one nucleic acid molecule comprises a coding sequence for said protein, wherein coding sequence for said protein comprises
 - 1) at least a portion of coding sequence for an HIV structural protein that includes an RRE and
 - 2) at least one CTE.
- 19. The method of claim 18 comprising the step of administering to said individual a composition comprising a genetic construct that comprises

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i) coding sequence for HIV-1 Rev, and

ii) coding sequence for said protein, wherein coding sequence for said protein comprises

- 1) at least a portion of coding sequence for an HIV structural protein that includes an RRE and
 - 2) at least one CTE.
- 20. The method of claim 18 comprising the step of administering to said individual a composition comprising at least two nucleic acid molecules:
- i) at least one nucleic acid molecule comprises a coding sequence for HIV-1 Rev, and
- ii) at least one nucleic acid molecule comprises a coding sequence for said protein, wherein coding sequence for said protein comprises
 - 1) at least a portion of coding sequence for an HIV structural protein that includes an RRE and
 - 2) at least one CTE.
 - 21-23. (canceled)
 - 24. The method of claim 16 wherein the genetic construct is a DNA molecule.
 - 25. The method of claim 24 wherein the genetic construct is a plasmid.
- 26. The method of claim 16 wherein the immunogen is a fusion protein comprising an HIV structural protein and at least one CTE.
- 27. The method of claim 16 wherein the immunogen is a fusion protein comprising at least a portion of an HIV structural protein and a non-HIV portion.

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28. The method of claim 16 wherein the immunogen is a fusion protein comprising at least a portion of an HIV structural protein and an immunogenic non-HIV portion.

- 29. The method of claim 16 wherein the genetic construct comprises 1-5 CTEs.
- 30. The method of claim 17 wherein the at least two nucleic acid molecules are DNA molecules.
 - 31. The method of claim 30 wherein the DNA molecules are plasmids.
- 32. The method of claim 17 wherein the immunogen is a fusion protein comprising an HIV structural protein and at least one CTE.
- 33. The method of claim 17 wherein the immunogen is a fusion protein comprising at least a portion of an HIV structural protein and a non-HIV portion.
- 34. The method of claim 17 wherein the immunogen is a fusion protein comprising at least a portion of an HIV structural protein and an immunogenic non-HIV portion.
- 35. The method of claim 17 wherein the coding sequence for the immunogen comprises 1-5 CTEs.
 - 36. The method of claim 19 wherein the genetic construct is a DNA molecule.
 - 37. The method of claim 36 wherein the genetic construct is a plasmid.
- 38. The method of claim 19 wherein the protein is an HIV structural protein that comprises at least one CTE.

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39. The method of claim 19 wherein the protein is a fusion protein comprising at least a portion of an HIV structural protein and a non-HIV portion.

- 40. The method of claim 19 wherein the protein is a fusion protein comprising at least a portion of an HIV structural protein and an immunogenic non-HIV portion.
- 41. The method of claim 19 wherein the genetic construct comprises 1-5 CTEs.
- 42. The method of claim 20 wherein the at least two nucleic acid molecules are DNA molecules.
 - 43. The method of claim 42 wherein the DNA molecules are plasmids.
- 44. The method of claim 20 wherein the protein is a fusion protein comprising an HIV structural protein and at least one CTE.
- 45. The method of claim 20 wherein the protein is a fusion protein comprising at least a portion of an HIV structural protein and a non-HIV portion.
- 46. The method of claim 20 wherein the protein is a fusion protein comprising at least a portion of an HIV structural protein and an immunogenic non-HIV portion.
- 47. The method of claim 20 wherein the coding sequence for the immunogen comprises 1-5 CTEs.

Drawings

The following changes to the drawings have been approved by the examiner and agreed upon by applicant: Applicants will provide a new Figure 1. In order to avoid

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abandonment of the application, applicant must make these above agreed upon drawing changes.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Zolotukhin et al. (Journal of Virology, 1994, 68(12):7944-7952) discloses a genetic construct that comprises: a) a coding sequence for HIV-1 Rev, and b) a coding sequence for a desired protein, wherein coding sequence for said desired protein comprises i) at least a portion of coding sequence for an HIV structural protein that includes an RRE and ii) at least one CTE (see Figure 1, clone NL43.S). NL43.S was constructed by inserting SRV-I-CTE into the wildtype HIV molecular clone NL4-3.

Zolotukhin et al., however, does not teach or suggest using such construct in a method for inducing an immune response against an antigen/immunogen as presently claimed.

Thus, the claimed invention is free of the prior art and allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to NICOLE KINSEY WHITE whose telephone number is (571)272-9943. The examiner can normally be reached on Monday through Friday from 8:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on (571) 272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nicole Kinsey White, PhD/ Examiner, Art Unit 1648

/Bruce Campell/

Supervisory Patent Examiner, Art Unit 1648

Application Number

Application/Control No.	Applicant(s)/Patent under Reexamination				
10/535,326	WEINER ET AL.				
Examiner	Art Unit				
NICOLE KINSEY WHITE	1648				

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